

Abstract

The application discloses an apparatus for controlling downlink power of the complex cell in the centralized base station system based on remote radio frequency units, said base station system having a plurality of radio frequency unit and a RAKE receiver connected to said plurality of radio frequency units, the apparatus comprising: signal quality measuring means connected to the RAKE receiver, for measuring signal quality of an uplink channel between each radio frequency unit and the same user equipment; average signal quality calculating means for calculating average signal quality of each uplink channel according to the measured signal quality; and power control means for adjusting transmission power of the downlink channel corresponding to the uplink channel according to said average signal quality, so that the transmission power of the downlink channel corresponding to the uplink channel with a lower average signal quality is relatively lower.